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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/531,436	UGA ET AL.
	Examiner	Art Unit
	Joshua Smith	2619

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 14 April 2005.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-20 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 14 April 2005 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>4/14/2005</u>	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 4/14/2005 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 6-11 and 16-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims are directed to a program per se.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 12-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakamichi et al. (Pub. No.: US 2002/0085498 A1), hereafter referred to as Nakamichi.

In regards to Claim 12, Nakamichi teaches in paragraphs [0050] and [0053] through [0055], and in FIG. 2, Sheet 2 of 12, a input-side router (item 11S, FIG. 2) containing a link state database (item 32a, FIG. 2) and a processing unit (item 30, FIG. 2) involved in the transmission and reception of packets, and in the generation, transmission and reception of opaque LSAs of the OSPF protocol (a link state database search unit provided in an interface that processes a packet input via an input channel, provided in a packet transfer device, and a collecting unit that collects received information using a control packet of a routing protocol).

Nakamichi also teaches in paragraphs [0141] and [0142], and in FIG. 11, Sheet 11 of 12, in step item S110 (FIG. 11), it is determined if an opaque LSA in a OLDB structure is up-to-date, and if an opaque LSA is up-to-date, this up-to-date OLDB structure is exchanged for an old OLDB structure which has already existed in the database (step item S114, FIG. 11) and the OLDB structure with the up-to-date LSA is inserted into this position, but if an opaque LSA is not up-to-date, the received opaque LSA is discarded (step item S112, FIG. 11) and is not inserted into the database region (a unit that stores at least a portion of items in a received information collected, and a unit compares stored information and information of newly received information collected to determine whether the newly received information is new or old).

In regards to Claims 13-15, Nakamichi teaches in paragraphs [0050] and [0053] through [0055], and in FIG. 2, Sheet 2 of 12, a input-side router (item 11S, FIG. 2) containing a link state database (item 32a, FIG. 2) and a processing unit (item 30, FIG.

2) involved in the transmission and reception of packets, and in the generation, transmission and reception of opaque LSAs of the OSPF protocol (a newly arrived packet containing newly received information, a comparing unit).

Nakamichi also teaches in paragraphs [0141] and [0142], and in FIG. 11, Sheet 11 of 12, in step item S110 (FIG. 11), it is determined if an opaque LSA in a OLDB structure is up-to-date, and if an opaque LSA is up-to-date, this up-to-date OLDB structure is exchanged for an old OLDB structure which has already existed in the database (step item S114, FIG. 11) and the OLDB structure with the up-to-date LSA is inserted into this position, but if an opaque LSA is not up-to-date, the received opaque LSA is discarded (step item S112, FIG. 11) and is not inserted into the database region (newly received information is newer than information stored based on a decision made by a comparing unit, discarding newly arrived control packet containing newly arrived information when the information is older than the information stored).

Nakamichi also teaches in paragraphs [0050] and [0051], each router exchanges information of each LSP in each link using opaque LSA of OSPF, and each router can propagate the opaque LSA(s), and, in paragraph [0111], and in FIG. 7, Sheet 7 of 12, after a database update process (step item S30, FIG. 7), step item S32 (FIG. 7) occurs in which the received opaque LSA is transmitted (flooded) to all other links (transferring a newly arrived control packet containing newly received information to a routing device, or to a routing device to an LSDB search unit in another interface, and a unit stores information in a control packet that is transferred from another unit).

In regards to Claim 16, Nakamichi teaches in paragraphs [0050] and [0053] through [0055], and in FIG. 2, Sheet 2 of 12, an input-side router (item 11S, FIG. 2) containing a program stored in an internal memory, a link state database (item 32a, FIG. 2), and a processing unit (item 30, FIG. 2) involved in the transmission and reception of packets, and in the generation, transmission and reception of opaque LSAs of the OSPF protocol (a program used in a link state database search unit provided in an interface that processes a packet input via an input channel, provided in a packet transfer device, and a function that collects received information using a control packet of a routing protocol).

Nakamichi also teaches in paragraphs [0141] and [0142], and in FIG. 11, Sheet 11 of 12, in step item S110 (FIG. 11), it is determined if an opaque LSA in a OLDB structure is up-to-date, and if an opaque LSA is up-to-date, this up-to-date OLDB structure is exchanged for an old OLDB structure which has already existed in the database (step item S114, FIG. 11) and the OLDB structure with the up-to-date LSA is inserted into this position, but if an opaque LSA is not up-to-date, the received opaque LSA is discarded (step item S112, FIG. 11) and is not inserted into the database region (a function that stores at least a portion of items in a received information collected, and a function that compares stored information and information of newly received information collected to determine whether the newly received information is new or old).

In regards to Claims 17-19, Nakamichi teaches in paragraphs [0050] and [0053] through [0055], and in FIG. 2, Sheet 2 of 12, containing a program stored in an internal memory, an input-side router (item 11S, FIG. 2) containing a link state database (item 32a, FIG. 2), and a processing unit (item 30, FIG. 2) involved in the transmission and reception of packets, and in the generation, transmission and reception of opaque LSAs of the OSPF protocol (a function and a newly arrived packet containing newly received information, a comparing function).

Nakamichi also teaches in paragraphs [0141] and [0142], and in FIG. 11, Sheet 11 of 12, in step item S110 (FIG. 11), it is determined if an opaque LSA in a OLDB structure is up-to-date, and if an opaque LSA is up-to-date, this up-to-date OLDB structure is exchanged for an old OLDB structure which has already existed in the database (step item S114, FIG. 11) and the OLDB structure with the up-to-date LSA is inserted into this position, but if an opaque LSA is not up-to-date, the received opaque LSA is discarded (step item S112, FIG. 11) and is not inserted into the database region (newly received information is newer than information stored based on a decision made by a comparing function, discarding newly arrived control packet containing newly arrived information when the information is older than the information stored).

Nakamichi also teaches in paragraphs [0050] and [0051], each router exchanges information of each LSP in each link using opaque LSA of OSPF, and each router can propagate the opaque LSA(s), and, in paragraph [0111], and in FIG. 7, Sheet 7 of 12, after a database update process (step item S30, FIG. 7), step item S32 (FIG. 7) occurs

in which the received opaque LSA is transmitted (flooded) to all other links (transferring a newly arrived control packet containing newly received information to a routing device, or to a routing device to an LSDB search unit in another interface, and a function stores information in a control packet that is transferred from another function).

In regards to Claim 20, as discussed in the rejection of Claim 16, Nakamichi teaches a program. Nakamichi teaches in paragraphs [0053] and [0055], a program stored in an internal memory in a router (a recording medium readable from a computing device).

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Basu et al. (Pub. No.: US 2004/0100950 A1) in view of Nakamichi et al. (Pub. No.: US 2002/0085498 A1), hereafter referred to as Basu and Nakamichi, respectively.

In regards to Claim 1, Basu teaches in paragraphs [0028] and [0029], and in FIG. 1, Sheet 1 of 10, a TCAM (item 15, FIG. 1) and an SRAM (item 16, FIG. 1) (a ternary content addressable memory (TCAM), an external memory).

Basu also teaches in paragraphs [0004], [0022], [0023], [0028], and [0029], and in FIG. 1, Sheet 1 of 10, implementation of TCAMs for flow classification, where TCAMs are provided hashing bits and destination address of a packet header from a packet (a unit that classifies items in information that is received, and a packet is sent according to a destination address, a packet that is input via an input channel).

Basu also teaches in paragraphs [0028] and [0029], and in FIG. 1, Sheet 1 of 10, TCAM (item 15, FIG. 1) contains sub-table ID information based on hashing bits of packet headers from incoming packets, and a resulting match from TCAM may then be used to index in SRAM (item 16, FIG. 1) containing "next hop" information for use in routing a given data packet (a unit that stores an item that uniquely identifies information among classified items in a TCAM and stores another item to an external memory, and a next hop to which a packet is to be sent).

Basu also teaches in paragraphs [0006] through [0008], a partitioning algorithm employed to segment a routing trie into a plurality of partitions for use with a two-stage lookup process, and any node in a routing trie that is in a routing table (a routing table generating unit that generates a routing table).

Basu fails to teach storing the rest of the items to an external memory.

Nakamichi teaches these limitations.

In the same field of endeavor, Nakamichi teaches in paragraphs [0054] and [0059], and in FIG. 3, Sheet 3 of 12, a link state database that is a database defined by the OSPF protocol and stores link states, and an opaque LSA database that is a database storing the opaque LSAs (a unit stores an item in a memory and stores the rest of the items to an external memory). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Nakamichi with the invention of Basu since Nakamichi provides a system where link states and opaque LSAs are stored in databases for use in an environment implementing the OSPF protocol, and such databases for OSPF can be used in the system of Basu to populate and update routing tables and allow the system of Basu to be compatible with and to be enhanced with OSPF technologies and operate in OSPF environments and networks.

In regards to Claim 2, as discussed in the rejection of Claim 1, Basu teaches classified items and external memory. Basu further teaches in paragraphs [0028] and [0029], and in FIG. 1, Sheet 1 of 10, a bit-selection logic module (item 11, FIG. 1), extract hashing bits from an incoming packet header, where the hashing bits are used as a sub-table ID for use in indexing to an appropriate bucket in a TCAM (item 15, FIG. 1) (searching information stored in a TCAM using, as a search key, an item that uniquely identifies information, and an item uniquely identifying information that has been stored in a TCAM match in a search).

Basu fails to teach a unit that searches new information prior to storing it, and a unit initiates a storing process when an item that uniquely identifies the newly received information and an item that uniquely identifies the information that has been stored do not match in a search, and a unit that determines whether a newly received information is older than corresponding information stored that corresponds to an item that uniquely identifies a newly received information. Nakamichi further teaches these limitations.

Nakamichi further teaches in paragraphs [0139] through [0141], and in FIG. 11, Sheet 11 of 12, in step item S108 (FIG. 11), in step item S108 (FIG. 11), it is determined whether or not there is an OLDB structure which agrees with the IP address of a router that transmitted the received opaque, and the OLDB is inserted in the database if there is no coincident OLDB structure (step item S118, FIG. 11) (a unit searches new information prior to storing it, and a unit initiates a storing process when an item that uniquely identifies the newly received information and an item that uniquely identifies the information that has been stored do not match in a search).

Nakamichi further teaches in paragraphs [0141] and [0142], and in FIG. 11, Sheet 11 of 12, in step item S110 (FIG. 11), it is determined if an opaque LSA in a OLDB structure is up-to-date, and if an opaque LSA is up-to-date, this up-to-date OLDB structure is exchanged for an old OLDB structure which has already existed in the database (step item S114, FIG. 11) and the OLDB structure with the up-to-date LSA is inserted into this position (a unit that determines whether a newly received information is older than corresponding information stored that corresponds to an item that uniquely identifies a newly received information).

In regards to Claim 3, as discussed in the rejection of Claim 1, Basu teaches newly received information and an external memory. Basu fails to teach a unit that ignores newly received information when a comparing unit determines that it is as old or older than corresponding information stored, and when a comparing unit determines the newly received information is newer than a corresponding information stored, the corresponding information stored is updated with newly received information.

Nakamichi further teaches these limitations.

Nakamichi further teaches in paragraphs [0141] and [0142], and in FIG. 11, Sheet 11 of 12, in step item S110 (FIG. 11), it is determined if an opaque LSA in a OLDB structure is up-to-date, and if an opaque LSA is up-to-date, this up-to-date OLDB structure is exchanged for an old OLDB structure which has already existed in the database (step item S114, FIG. 11) and the OLDB structure with the up-to-date LSA is inserted into this position, but if an opaque LSA is not up-to-date, the received opaque LSA is discarded (step item S112, FIG. 11) and is not inserted into the database region (a unit that ignores newly received information when a comparing unit determines that it is as old or older than corresponding information stored, and when a comparing unit determines the newly received information is newer than a corresponding information stored, the corresponding information stored is updated with newly received information). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Nakamichi with the invention of Basu since Nakamichi provides a system where link states and opaque LSAs are stored in

databases for use in an environment implementing the OSPF protocol, and such databases for OSPF can be used in the system of Basu to populate and update routing tables and allow the system of Basu to be compatible with and to be enhanced with OSPF technologies and operate in OSPF environments and networks.

In regards to Claim 4, as discussed in the rejection of Claim 1, Basu teaches arrival of an arrived packet, using information stored in a TCAM, and information stored in an external memory based on a destination address. Basu fails to teach searching for a shortest path. Nakamichi further teaches these limitations.

Nakamichi further teaches in paragraph [0050], sharing traffic information related to Open Shortest Path First (OSPF) protocol (searching for a shortest path). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Nakamichi with the invention of Basu since Nakamichi provides a system where link states and opaque LSAs are stored in databases for use in an environment implementing the OSPF protocol, and such databases for OSPF can be used in the system of Basu to populate and update routing tables and allow the system of Basu to be compatible with and to be enhanced with OSPF technologies and operate in OSPF environments and networks.

In regards to Claim 5, as discussed in the rejection of Claim 1, Basu teaches a unit determining a next hop to which an arrived packet is to be sent. Basu fails to teach searching for a shortest path. Nakamichi further teaches these limitations.

Nakamichi further teaches in paragraph [0050], sharing traffic information related to Open Shortest Path First (OSPF) protocol (searching for a shortest path). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Nakamichi with the invention of Basu since Nakamichi provides a system where link states and opaque LSAs are stored in databases for use in an environment implementing the OSPF protocol, and such databases for OSPF can be used in the system of Basu to populate and update routing tables and allow the system of Basu to be compatible with and to be enhanced with OSPF technologies and operate in OSPF environments and networks.

In regards to Claim 6, Basu teaches in paragraphs [0004], [0022], [0023], [0028], and [0029], and in FIG. 1, Sheet 1 of 10, implementation of TCAMs for flow classification, where TCAMs are provided hashing bits and destination address of a packet header from a packet (a function that classifies items in information that is received, and a packet is sent according to a destination address, a packet that is input via an input channel).

Basu also teaches in paragraphs [0028] and [0029], and in FIG. 1, Sheet 1 of 10, TCAM (item 15, FIG. 1) contains sub-table ID information based on hashing bits of packet headers from incoming packets, and a resulting match from TCAM may then be used to index in SRAM (item 16, FIG. 1) containing "next hop" information for use in routing a given data packet (a function that stores an item that uniquely identifies

information among classified items in a TCAM and stores another item to an external memory, and a next hop to which a packet is to be sent).

Basu also teaches in paragraphs [0006] through [0008], a partitioning algorithm employed to segment a routing trie into a plurality of partitions for use with a two-stage lookup process, and any node in a routing trie that is in a routing table (a routing table generating function that generates a routing table).

Basu also teaches in paragraph [0037], program codes for implementing an algorithm (a program used).

Basu fails to teach storing the rest of the items to an external memory.

Nakamichi teaches these limitations.

In the same field of endeavor, Nakamichi teaches in paragraphs [0054] and [0059], and in FIG. 3, Sheet 3 of 12, a link state database that is a database defined by the OSPF protocol and stores link states, and an opaque LSA database that is a database storing the opaque LSAs (a unit stores an item in a memory and stores the rest of the items to an external memory). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Nakamichi with the invention of Basu since Nakamichi provides a system where link states and opaque LSAs are stored in databases for use in an environment implementing the OSPF protocol, and such databases for OSPF can be used in the system of Basu to populate and update routing tables and allow the system of Basu to be compatible with and to be enhanced with OSPF technologies and operate in OSPF environments and networks.

In regards to Claim 7, as discussed in the rejection of Claim 6, Basu teaches a program, classified items, and external memory. Basu further teaches in paragraphs [0028] and [0029], and in FIG. 1, Sheet 1 of 10, a bit-selection logic module (item 11, FIG. 1), extract hashing bits from an incoming packet header, where the hashing bits are used as a sub-table ID for use in indexing to an appropriate bucket in a TCAM (item 15, FIG. 1) (searching information stored in a TCAM using, as a search key, an item that uniquely identifies information, and an item uniquely identifying information that has been stored in a TCAM match in a search).

Basu fails to teach a function that searches new information prior to storing it, and a unit initiates a storing process when an item that uniquely identifies the newly received information and an item that uniquely identifies the information that has been stored do not match in a search, and a function that determines whether a newly received information is older than corresponding information stored that corresponds to an item that uniquely identifies a newly received information. Nakamichi further teaches these limitations.

Nakamichi further teaches in paragraphs [0139] through [0141], and in FIG. 11, Sheet 11 of 12, in step item S108 (FIG. 11), in step item S108 (FIG. 11), it is determined whether or not there is an OLDB structure which agrees with the IP address of a router that transmitted the received opaque, and the OLDB is inserted in the database if there is no coincident OLDB structure (step item S118, FIG. 11) (a function searches new information prior to storing it, and a function initiates a storing process when an item that

uniquely identifies the newly received information and an item that uniquely identifies the information that has been stored do not match in a search).

Nakamichi further teaches in paragraphs [0141] and [0142], and in FIG. 11, Sheet 11 of 12, in step item S110 (FIG. 11), it is determined if an opaque LSA in a OLDB structure is up-to-date, and if an opaque LSA is up-to-date, this up-to-date OLDB structure is exchanged for an old OLDB structure which has already existed in the database (step item S114, FIG. 11) and the OLDB structure with the up-to-date LSA is inserted into this position (a function that determines whether a newly received information is older than corresponding information stored that corresponds to an item that uniquely identifies a newly received information).

In regards to Claim 8, as discussed in the rejection of Claim 6, Basu teaches a program, newly received information, and an external memory. Basu fails to teach a function that ignores newly received information when a comparing unit determines that it is as old or older than corresponding information stored, and when a comparing function determines the newly received information is newer than a corresponding information stored, the corresponding information stored is updated with newly received information. Nakamichi further teaches these limitations.

Nakamichi further teaches in paragraphs [0141] and [0142], and in FIG. 11, Sheet 11 of 12, in step item S110 (FIG. 11), it is determined if an opaque LSA in a OLDB structure is up-to-date, and if an opaque LSA is up-to-date, this up-to-date OLDB structure is exchanged for an old OLDB structure which has already existed in the

database (step item S114, FIG. 11) and the OLDB structure with the up-to-date LSA is inserted into this position, but if an opaque LSA is not up-to-date, the received opaque LSA is discarded (step item S112, FIG. 11) and is not inserted into the database region (a function that ignores newly received information when a comparing function determines that it is as old or older than corresponding information stored, and when a comparing function determines the newly received information is newer than a corresponding information stored, the corresponding information stored is updated with newly received information). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Nakamichi with the invention of Basu since Nakamichi provides a system where link states and opaque LSAs are stored in databases for use in an environment implementing the OSPF protocol, and such databases for OSPF can be used in the system of Basu to populate and update routing tables and allow the system of Basu to be compatible with and to be enhanced with OSPF technologies and operate in OSPF environments and networks.

In regards to Claim 9, as discussed in the rejection of Claim 6, Basu teaches arrival of an arrived packet, using information stored in a TCAM, and information stored in an external memory based on a destination address. Basu fails to teach searching for a shortest path. Nakamichi further teaches these limitations.

Nakamichi further teaches in paragraph [0050], sharing traffic information related to Open Shortest Path First (OSPF) protocol (searching for a shortest path). It would have been obvious to one of ordinary skill in the art at the time of the invention to

combine the invention of Nakamichi with the invention of Basu since Nakamichi provides a system where link states and opaque LSAs are stored in databases for use in an environment implementing the OSPF protocol, and such databases for OSPF can be used in the system of Basu to populate and update routing tables and allow the system of Basu to be compatible with and to be enhanced with OSPF technologies and operate in OSPF environments and networks.

In regards to Claim 10, as discussed in the rejection of Claim 6, Basu teaches a function determining a next hop to which an arrived packet is to be sent. Basu fails to teach searching for a shortest path. Nakamichi further teaches these limitations.

Nakamichi further teaches in paragraph [0050], sharing traffic information related to Open Shortest Path First (OSPF) protocol (searching for a shortest path). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Nakamichi with the invention of Basu since Nakamichi provides a system where link states and opaque LSAs are stored in databases for use in an environment implementing the OSPF protocol, and such databases for OSPF can be used in the system of Basu to populate and update routing tables and allow the system of Basu to be compatible with and to be enhanced with OSPF technologies and operate in OSPF environments and networks.

In regards to Claim 11, as discussed in the rejection of Claim 6, Basu teaches a program. Basu further teaches in paragraph [0077], various processes may be

substantially represented in a computer readable medium (a recoding medium readable from a computing device).

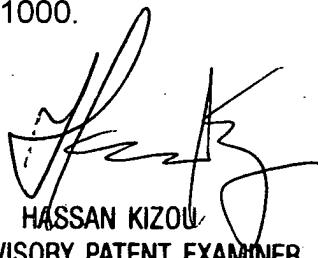
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Smith whose telephone number is 571-270-1826. The examiner can normally be reached on Monday through Friday, 9:30 AM to 7:00 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joshua Smith
1/15/2008



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